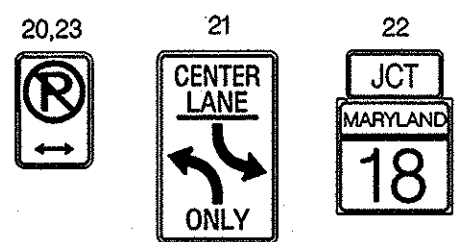
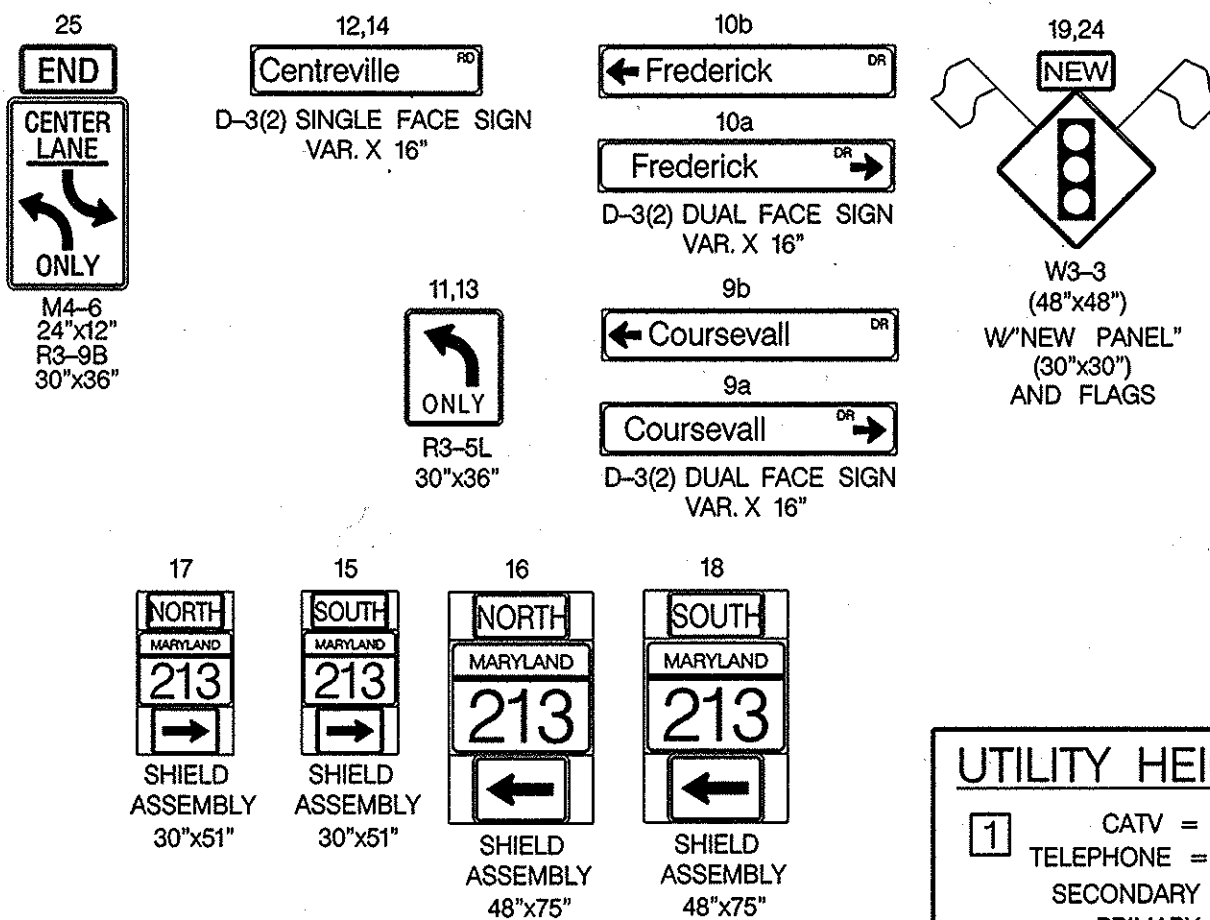


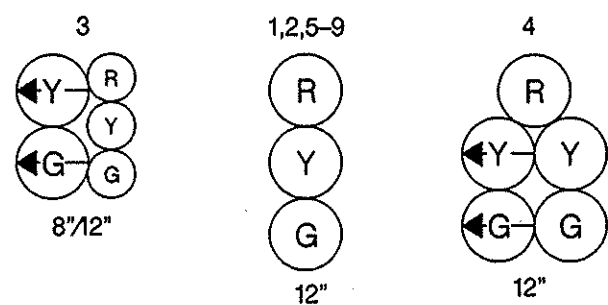
EXISTING SIGNS



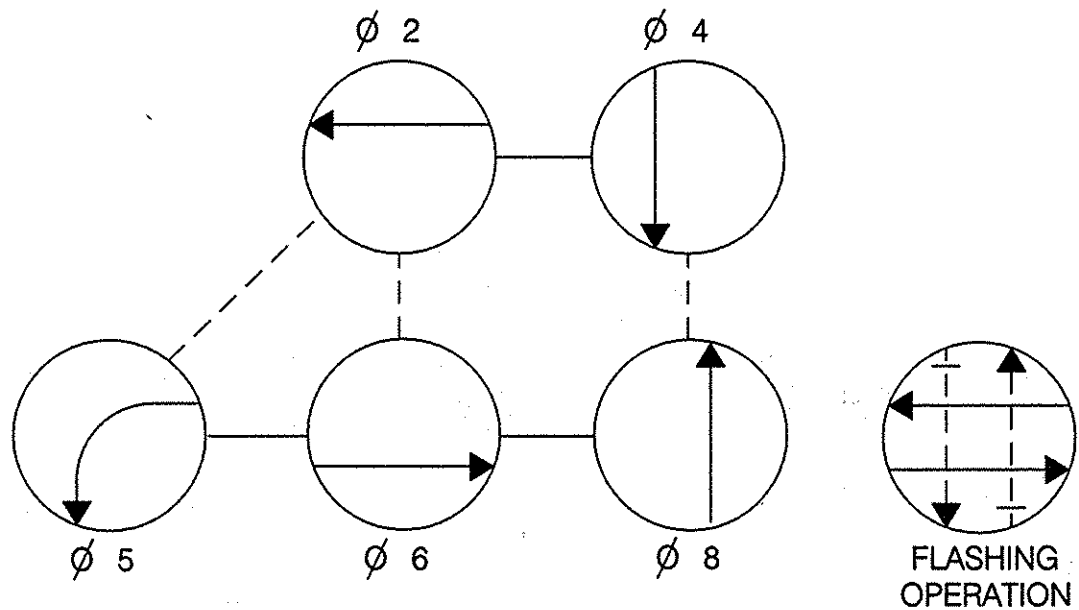
PROPOSED SIGNS



PROPOSED L.E.D. SIGNALS



NEMA PHASING



PHASING NOTES:
1.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2.) PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.

UTILITY HEIGHTS
1 CATV = 16'-10"
TELEPHONE = 18'-9"
SECONDARY = 20'-2"
PRIMARY = 28'-7"

PROPOSED VIDEO DETECTION CAMERA

A - C

MD 213

MD 213

GENERAL NOTES

1. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THE CONFLICT MAY BE RESOLVED.
2. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCE AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
3. REMOVE EXISTING R1-1 "STOP" SIGNS FOR COURSEVALL DRIVE AND FREDERICK DRIVE WHEN THE SIGNAL IS OPERATIONAL.

CONSTRUCTION DETAILS

- A. INSTALL 27 FT. MAST ARM POLE WITH 50 FT/70 FT. MAST ARMS, SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERA, AND 15 FT. STREET LIGHTING ARM WITH 250 WATT HPSV LUMINAIRE (NOTE: INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS)
- B. INSTALL 16.5 FT. MAST ARM POLE WITH A 15 FT. "T" AND A 38 FT. MAST ARM, SIGNAL HEADS, AND SIGNS (NOTE: INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS)
- C. INSTALL BASE MOUNTED CABINET AND CONTROLLER WITH ALL OTHER NECESSARY EQUIPMENT (NOTE: INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS)
- D. INSTALL ELECTRICAL HANDHOLE
- E. INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - TRENCHED
- F. INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - BORED
- G. INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - BORED
- H. INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - TRENCHED
- I. INSTALL NON-INVASIVE MICRO-LOOP PROBE
- J. VIDEO DETECTION ZONE
- K. PROPOSED UNDERGROUND ELECTRIC SERVICE
- L. INSTALL 5 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
- M. INSTALL 5 IN. YELLOW HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
- N. INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
- O. REMOVE EXISTING PAVEMENT MARKINGS
- P. REMOVE EXISTING PAVEMENT MARKINGS
- Q. INSTALL METER SERVICE PEDESTAL
- R. INSTALL W3-3 SIGN APPROXIMATELY 400' IN ADVANCE OF THE STOPBAR ON TWO-4 IN. X 6 IN. WOOD SUPPORTS
- S. INSTALL M4-6 AND R3-95 SIGNS ON ONE 4 IN. X 4 IN. WOOD SUPPORT
- T. REMOVE EXISTING PAVEMENT MARKING ARROW
- U. INSTALL WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING ARROW
- V. INSTALL 16.5 FT. MAST ARM POLE WITH A 15 FT. "T" AND A 38 FT. MAST ARM, SIGNAL HEADS, VIDEO DETECTION CAMERA AND SIGNS (NOTE: INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS)
- W. REMOVE EXISTING R1-1 SIGN AND SUPPORT
- X. REMOVE EXISTING M4-6 SIGN AND SUPPORT
- Y. RELOCATE EXISTING GROUND MOUNTED SIGN AND SUPPORT
- Z. INSTALL SIGN AND WOOD SUPPORT



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

TRAFFIC SIGNAL PLAN
MD 213 AND
COURSEVALL / FREDERICK DRIVES
CENTREVILLE, MARYLAND

SCALE 1"=20' DATE 1-3-08 CONTRACT NO. BW996M82

DESIGNED BY T. ZAYDEL COUNTY QUEEN ANNES
DRAWN BY M. ROSEN LOGMILE 17021306.56
CHECKED BY K. SCHMID T.I.M.S. NO. 1-523
F.A.P. NO. NA TOD NO.

DRAWING NO. TS-4633 SHEET NO. 1 OF 2

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DIVISION CHIEF
OFFICE DIRECTOR

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